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ABSTRACT OF THE DISCLOSURE

In correcting the sound field, the loudspeakers 6_{EL} to $\mathsf{6}_{\mathsf{WF}}$ are sounded by the noise. The attenuation factors of the inter-band attenuators ATF_{11} to ATF_{ki} for adjusting gains of the band-pass filters $\text{BPF}_{\text{l}1}$ to $\text{BPF}_{\text{k}i}$ to the frequency in respective channels are corrected based on detection results of the reproduced sounds of the loudspeakers 6_{EL} to 6_{WE} . Then, the attenuation factors of the channel-to-channel attenuators ATG1 to ATG_5 are corrected based on the detection results of the reproduced sounds of the loudspeakers $\mathbf{6}_{\text{FL}}$ to $\mathbf{6}_{\text{WF}}.$ Then, the delay times of the delay circuits DLY, to DLY, are corrected based on the detection results of the reproduced sounds of the loudspeakers 6_{FL} to 6_{WF} . Then, the attenuation factor of the channel-to-channel attenuator ATG, is corrected based on the detection result of the reproduced sound of the loudspeaker 6_{WF} as the subwoofer, whereby the levels of the reproduced sounds reproduced by the loudspeakers θ_{FL} to θ_{WF} are adjusted to be made flat over the audio frequency band.